## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

## Listing of Claims:

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- 1-41. (Canceled)
- 42. (Currently amended) A method for determining whether a test colon cell
  has an inflammatory bowel disease (IBD) phenotype, said method comprising:
  - (a) determining an expression level of each of the following genes gene products in said test colon cell:
    - (i) a macrophage inflammatory protein- $2\beta$  (GRO3) gene product (SEQ ID NO:7);
    - (ii) a neutrophil lipocalin (HNL) gene product (SEQ ID NO:14);
      - (iii) a macrophage elastase (MMP-12) gene product (SEQ ID NO:81);
      - (iv) an elastase specific inhibitor (elafin) gene product (SEQ ID NO:85); and
      - (v) a type VI collagen o3 chain (COL6A3) gene product (SEQ ID NO:87);
- (b) comparing the expression level of each of said GRO3, HNL, MMP-12, elafin, and
  COL6A3 genes gene products in said test colon cell to an expression level of the same gene
- 12 <u>product</u> in a normal colon cell; and
- (c) associating an increase in the expression level of any of said GRO3, HNL, MMP-12,
  elafin, and COL6A3 genes gene products in said test colon cell relative to the expression level of
  - the same gene product in said normal colon cell with an IBD phenotype in said test colon cell.
- 1 43-45. (Canceled)
- 1 46. (Currently amended) The method of claim 42, wherein said test colon cell
- 2 has an IBD phenotype when the expression level of any of said GRO3, HNL, MMP-12, elafin,
- 3 and COL6A3 genes gene products in said test colon cell is increased relative to the expression
- 4 level of the same gene product in said normal colon cell by at least a factor of two.

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1	47. (Previously presented) The method of claim 42, wherein said test colon
2	cell is obtained from a needle biopsy core, a surgical resection sample, or a bowel sample.
1	48. (Currently amended) The method of claim 42, wherein the expression
2	level of said genes gene products is determined using Northern blot analysis, reverse
3	transcription-polymerase chain reaction, in situ hybridization, or an array.
1	49. (Currently amended) The method of claim 48, wherein said array
2	comprises:
3	(a) nucleic acid probes of 12-40 nucleotides in length, wherein said nucleic acid probes
4	are complementary to said $\underline{\text{\bf genes}}$ $\underline{\text{\bf gene products}}$ and hybridize under high stringency conditions
5	to said genes gene products; and
6	(b) a substrate to which said nucleic acid probes are bound.
1	50. (Previously presented) The method of claim 49, wherein said substrate is
2	selected from the group consisting of paper, membranes, filters, chips, pins, and glass.
1	51. (Previously presented) The method of claim 49, wherein said nucleic acid
2	probes are bound to said substrate by covalent bonds or hydrophobic interactions.
1	52. (Previously presented) The method of claim 49, wherein said nucleic acid
2	probes are spotted onto said substrate in a two-dimensional matrix or array.
1	53-56 (Canceled)